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Date of Deposit: 18 February 2004

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THORP REED & ARMSTRONG, LLP

One Oxford Centre

301 Grant Street, 14th Floor

Pittsburgh, PA 15219-1425



Application No.	:	Not yet assigned
Applicant	:	Loeb, et al.
Filed	:	18 February 2004
TC/A.U.	:	Not Yet Assigned
Examiner	:	Not Yet Assigned
Atty. Docket No.	:	DB000950-004
Customer No.	:	24122

To: Commissioner of Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Information Disclosure Statement

Sir:

Pursuant to the provisions of 37 CFR §§1.56 and 1.97-98, enclosed herewith is:

☒ Form PTO/SB/08A

☐ Form PTO/SB/08B

listing references for consideration by the Examiner.

The filing of this Information Disclosure Statement shall not be construed as a representation regarding the completeness of the list of references, or that inclusion of a reference in this list is an admission that it is "prior art" to this application, or that a search has been made, or as an admission that the information listed is, or may be considered to be, material to patentability as defined in 37 CFR §1.56, or that no other material information exists, and shall not be construed as an admission against applicant(s) interest in any manner.

The Information Disclosure Statement submitted herewith is being filed pursuant to:

☐ 37 C.F.R. §1.97(b)(1); no fee is required;

OR

☐ 37 C.F.R. §1.97(b)(2); no fee is required;

OR

☒ 37 C.F.R. §1.97(b)(3); no fee is required;

OR

☐ 37 C.F.R. §1.97(b)(4); no fee is required;

OR

☐ 37 C.F.R. §1.97(c);

AND either

☐ The fee set forth in §1.17(p) is attached; OR

Applicant certifies pursuant to 37 CFR §1.97(e) that:

☐ each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement; OR

☐ no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this certification after making reasonable inquiry, no item contained in the Information Disclosure Statement was known to any individual designated under 37 CFR §1.56(c) more than three months prior to the filing of this statement;

OR

Application No.: Not yet assigned
Dated: 18 February 2004
Information Disclosure Statement

- ☐ 37 C.F.R. §1.97(d); the fee set forth in §1.17(p) is attached,
AND
- ☐ each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement; OR
- ☐ no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this certification after making reasonable inquiry, no item contained in the Information Disclosure Statement was known to any individual designated under 37 CFR §1.56(c) more than three months prior to the filing of this Statement.

Applicants respectfully request that the listed references be considered by the Examiner, and that the Examiner acknowledge consideration of these references by initialing and returning a copy of the attached form(s) with the next Official Action.

Respectfully submitted,

Dated: 18 February 2004



Edward L. Pencoske
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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Application Number	
Filing Date	18 February 2004
First Named Inventor	Loeb, et al.
Art Unit	Not yet assigned
Examiner Name	Not yet assigned
Attorney Docket Number	DB000950-004

Sheet	1	of	1
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U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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COPY

PATENT
99395

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit: 2747 :
In re application of: : MEMS DIGITAL-TO-ACOUSTIC
Loeb et al. : TRANSDUCER WITH ERROR
Serial No.: 09/395,073 : CANCELLATION
Filed: September 13, 1999 : Group: 2700

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Pittsburgh, Pennsylvania 15222

March 8, 2001

Commissioner for Patents

Washington, DC 20231

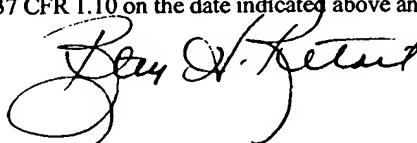
Sir:

Applicants, in accordance with their duty of disclosure pursuant to 37 C.F.R. § 1.56, hereby advise the United States Patent and Trademark Office of the references listed on the accompanying form PTO-1449 *Information Disclosure Statement*. A copy of each of the references cited therein is herewith enclosed.

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Date of Deposit March 8, 2001

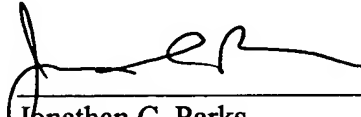
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PI-663866 v1



Applicants note that although the cited references may be relevant to the examination of the above-referenced application; under 37 C.F.R. § 1.97(h), the filing of this *Information Disclosure Statement* "shall not be construed to be an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in § 1.56(b)."

Respectfully submitted,


Jonathan C. Parks
Registration No. 40,120

Attorney for Applicants

Kirkpatrick & Lockhart LLP
Henry W. Oliver Building
535 Smithfield Street
Pittsburgh, Pennsylvania 15222-2312

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Form PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	Atty. Docket No. 99395	Serial No. 09/395,073
	Applicants Loeb et al.	
	Filing Date 09-13-99	Group 2700

U. S. PATENT DOCUMENTS

Examiner Initial	Document Number	Issue Date	Patentee	Class	Sub-Class	Filing Date
	4,555,797	November 26, 1985	Nieuwendijk et al.	381	117	Sep. 7, 1984
	5,717,631	February 10, 1998	Carley et al.	365	174	July 25, 1995
	5,970,315	October 19, 1999	Carley et al.	438	52	Oct. 3, 1997
	5,774,252	June 30, 1998	Lin et al.	359	224	Apr. 19, 1996
	5,876,187	March 2, 1999	Afromowitz et al.	417	322	March 9, 1995
	5,808,781	September 15, 1998	Arney et al.	359	291	Feb. 24, 1997
	5,867,302	February 2, 1999	Fleming	359	291	Aug. 7, 1997
	6,128,961	October 10, 2000	Haronian	73	774	Aug. 24, 1998
	6,028,331	February 22, 2000	Mastromatteo et al.	257	253	Jan. 30, 1998

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

Examiner Initial	Document Number	Public. Date	Country or Patent Office	Class	Sub-Class	Transl Y N

OTHER DOCUMENTS

(Including Author, Title, Date, Relevant Pages, Place of Publication)

Examiner	Date Considered
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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PATENT
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re application of: : MEMS DIGITAL-TO-ACOUSTIC
Loeb et al. : TRANSDUCER WITH ERROR
Serial No.: 09/395,073 : CANCELLATION
Filed: September 13, 1999 :

INFORMATION DISCLOSURE STATEMENT

Pittsburgh, Pennsylvania 15222

December 9, 1999

Assistant Commissioner for Patents

Washington, DC 20231

Sir:

Applicants, in accordance with their duty of disclosure pursuant to 37 C.F.R. § 1.56, hereby advises the United States Patent and Trademark Office of the references listed on the accompanying form PTO-1449 *Information Disclosure Statement*. A copy of each of the references cited therein is herewith enclosed.

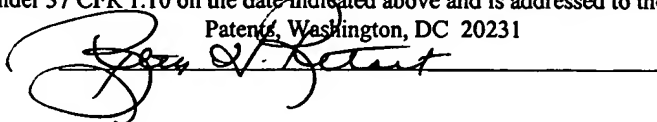
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Date of Deposit December 9, 1999

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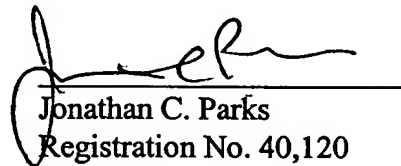
Patents, Washington, DC 20231

PI-465072.01



Applicants note that although the cited references may be relevant to the examination of the above-referenced application, under 37 C.F.R. § 1.97(h), the filing of this *Information Disclosure Statement* "shall not be construed to be an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in § 1.56(b)."

Respectfully submitted,



Jonathan C. Parks
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Attorney for Applicants

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Form PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	Atty. Docket No. 99395	Serial No. 09/395,073
	Applicant Loeb et al.	
	Filing Date 09-13-99	Group 2700

U. S. PATENT DOCUMENTS

Examiner Initial	Document Number	Issue Date	Patentee	Class	Sub-Class	Filing Date

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

Examiner Initial	Document Number	Public Date	Country or Patent Office	Class	Sub-Class	Transl Y N

OTHER DOCUMENTS

(Including Author, Title, Date, Relevant Pages, Place of Publication)

			Peter Clarke, "English startup claims breakthrough in digital loudspeakers", EETimes online, posted at http://www.eetimes.com/news/98/1017 news/english.html on 7-13-1998, pp. 1-5
			Jon Iverson, "New Digital Loudspeaker Technology Announced from England", Stereophile News, posted at http://www.stereophile.com/shownews.cgi?234 on August 10, 1998, pp. 1-2
			Jon Iverson, "Just What Is a Digital Loudspeaker?", Stereophile News, posted at http://www.stereophile.com/shownews.cgi?235 on August 10, 1998, pp. 1-3
Examiner		Date Considered	
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

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Filed: September 13, 1999 : Group: 2700

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Pittsburgh, Pennsylvania 15222

July 24, 2001

Commissioner for Patents

Washington, DC 20231

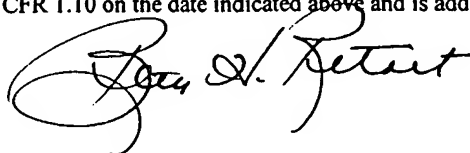
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Applicants, in accordance with their duty of disclosure pursuant to 37 C.F.R. § 1.56, hereby advise the United States Patent and Trademark Office of the references listed on the accompanying form PTO-1449 *Information Disclosure Statement*. A copy of each of the references cited therein is herewith enclosed.

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Date of Deposit July 24, 2001

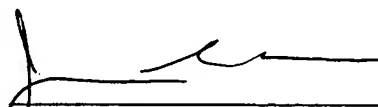
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PI-724929 v1 0201710-0476



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	Applicant Loeb et al.	
	Filing Date 09-13-99	Group 2700

U. S. PATENT DOCUMENTS

Examiner Initial		Document Number	Issue Date	Patentee	Class	Sub-Class	Filing Date
		5,658,710	Aug. 19, 1997	Neukermans			

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

Examiner Initial		Document Number	Public. Date	Country or Patent Office	Class	Sub-Class	Transl Y N	
		EP 0 911 952 A2	4/28/99	EP				X
		WO 94/30030 A1	12/22/94	WIPO (PCT)				X
		WO 93/19343 A1	9/30/93	WIPO (PCT)				X

OTHER DOCUMENTS

(Including Author, Title, Date, Relevant Pages, Place of Publication)

Examiner	Date Considered		

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Rev. 12/92